

PTO/SB/21 (08-04)

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FORM**

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Total Number of Pages in This Submission

4

Application Number 10/691,462

Filing Date 10/22/2003

First Named Inventor Michael Kardauskas

Art Unit 1753

Examiner Name Alan Diamond

Attorney Docket Number SR.US.1

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CENTRAL FAX CENTER****JUN 13 2006****ENCLOSURES (Check all that apply)**

- ☐ Fee Transmittal Form
- ☐ Fee Attached
- ☐ Amendment/Reply
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- ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/Incomplete Application
- ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53

- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☒ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation
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- ☐ Landscape Table on CD

- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) (please identify below):
- Declaration by Inventor in Support of Petition to Make Special.

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name Mesmer & Deleault, PLLC

Signature 


Printed name Phillip E. Decker

Date 06/13/2006

Reg. No. 39,163

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JUN 13 2006

Attorney's Docket No. SR.US.1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Michael J. Kardauskas and
Bernhard P. Piwczyk

Serial No.: 10/691,452

Filed: 10/22/2003

For: DIFFRACTIVE STRUCTURES FOR THE
REDIRECTION AND CONCENTRATION OF
OPTICAL RADIATION

] Examiner: Alan D. Diamond

] Group Art Unit: 1753

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450PETITION TO MAKE SPECIAL UNDER THE ENERGY PROGRAM
MPEP 708.02 VI; 37 CFR § 1.102(c)(2)(ii)

Applicants hereby petition to make this application special as being for an application that materially contributes to the discovery or development of energy resources.

Accompanying this petition is a declaration by one of the named inventors explaining how the invention materially contributes discovery or development of energy resources.

No fee is required with this petition, in accordance with 37 CFR 1.102(c).

Date:

6/13/06

Reg. No.: 39,163

Tel. No.: (603) 766-1910

(Signature of Attorney)

Phillip E. Decker

Attorney for Applicants

Mesmer & Deleault, PLLC

1 New Hampshire Ave., Suite 125

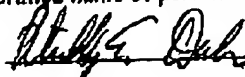
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DECLARATION BY INVENTOR IN SUPPORT OF PETITION TO MAKE SPECIAL
UNDER THE ENERGY PROGRAM (37 CFR § 1.102(c)(2)(ii))

I, Michael J. Kardauskas, having a business mailing address of 8 River Street, Billerica, Massachusetts 01821, am an Applicant in the above-captioned patent application, and declare as follows:

1. That this invention materially contributes to the discovery or development of energy resources by greatly increasing the amount of power that can be produced by a solar panel. The invention harnesses the optical radiation striking the surface of a solar panel that would otherwise be reflected away because the angle of incidence is too great. The invention uses a diffractive layer disposed on the solar panel to redirect and concentrate optical radiation to the photovoltaic cells, thereby increasing power output without increasing the area of photovoltaic cells.

2. That actual tests of the invention have demonstrated a power output increase of about 12%.

3. That the theoretical maximum power output increase is at least 100%.

4. That the increasing scarcity of oil as an energy source and a global shortage of photovoltaic cells make this invention materially important in the development of energy resources.

5. That I believe all the claims in this application as on file are allowable.

6. I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: June 13, 2006

/Michael J. Kardauskas /
(Signature)